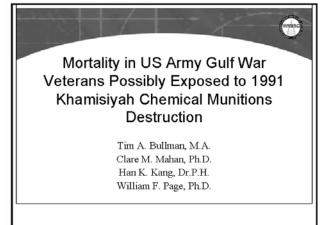
wydod

## Presentation 13 - Tim Bullman





- Army-sponsored study of 351,000 deployed Army personnel.
- Risk factor was possible chemical warfare agent exposure.
- Investigate independently the effects of notification of possible exposure.

2

## (weise

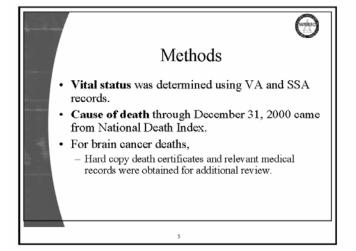
## Background

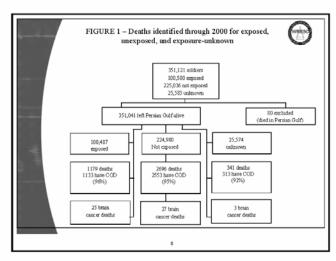
- Individual exposure estimates were made using information from nerve agent dispersion and meteorologic models along with troop location data.
- The latest exposure estimates (2000 DoD model) are being used in our analyses.

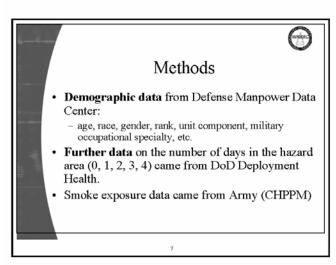
## Methods

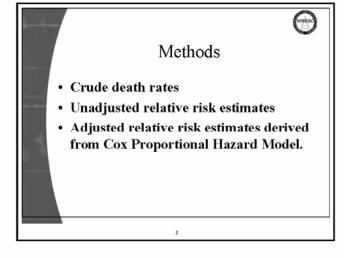
- 351,041 deployed Army veterans using data from DoD deployment health files.
  - Divided into 3 groups:
    - exposed (100,487),
    - · unexposed (224,980),
    - exposure status unknown (25,574).

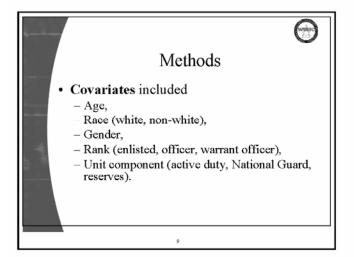
4

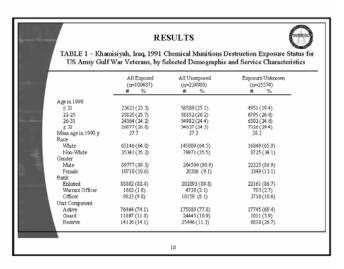


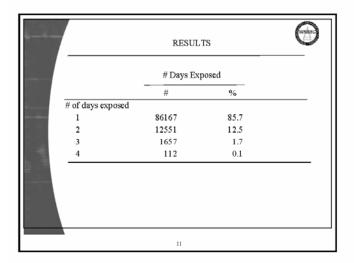












| Khamisiyah, Iraq, in 1991 Compared With Unexposed Army Veterans  Exposed Not Exposed |                          |                          |                |          |           |
|--|--------------------------|--------------------------|----------------|----------|-----------|
| Underlying cause of death (ICD-9)  | (n=100487)<br>No. (Rate) | (n=224980)<br>No. (Rate) | Relative Risks |          |           |
|  |                          |                          | Crude          | Adjusted | 95%CI     |
| All causes   | 1179 (12.22)             | 2696 (12.47)             | 0.98           | 0.97     | 0.91, 1.0 |
| All diseases (001-799)   | 496 (5.14                | 1093 (5.05)              | 1.02           | 0.96     | 0.86, 1.0 |
| Infectious and parasitic   | 29 (0.30)                | 56 (0.26)                | 1.16           | 1.16     | 0.74, 1.3 |
| disease (001-139)  |                          |                          |                |          |           |
| Malignant neoplasm (140-208)   | 184 (1.91)               | 391 91.81)               | 1.06           | 0.97     | 0.82, 1.1 |
| Colon cancer (153)   | 14 (0.15)                | 26 (0.12)                | 1.25           | 1.17     | 0.61, 23  |
| Lung cancer (162)  | 30 (0.31)                | 84 (0.39)                | 0.80           | 0.72     | 0.47, 1.  |
| Brain cancer (191-192)   | 25 (0.26)                | 27 (0.12)                | 2.17           | 1.94     | 1.12, 32  |
| Disease of circulatory system<br>(390-459)   | 170 (1.76)               | 407 (1.88)               | 0.94           | 0.89     | 0.74, 1.  |
| Disease of respiratory system<br>(460-519)   | 22 (0.23)                | 45 (0.21)                | 1.10           | 1.03     | 0.62, 1.3 |
| Disease of the digestive system<br>(520-579)   | 24 (0.25)                | 46 (0.21)                | 1.17           | 1.10     | 0.67, 1.3 |
| All external causes (E800-E989)  | 637 (6.60)               | 1460 (6.75)              | 0.98           | 1.01     | 0.92, 1.  |

